

INTERTEK TESTING SERVICES

RF Exposure

The Equipment Under Test (EUT) is a BT AR/VR Headset with Bluetooth function. The EUT is powered by rechargeable battery (DC3.7V, 180mAh) which can be charged by Micro USB port (DC 5V). For more detailed features description, please refer to the user's manual.

Bluetooth function:

Bluetooth Version: 4.2 EDR(single mode)

Antenna Type: Integral Antenna.

Antenna Gain: 0dBi.

Modulation Type: GFSK, $\pi/4$ DQPSK, 8DPSK

The nominal conducted output power specified: -1dBm (+/-3dB)

The nominal radiated output power (e.i.r.p) specified: -1dBm (+/- 3dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 94.6dB μ V/m at 3m in the frequency 2480MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -0.6dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 91.8dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -3.4dBm
which is within the production variation.

The maximum conducted output power specified is 2dBm = 1.6mW

The source- based time-averaging conducted output power
= 1.6 * Duty factor mW (where Duty Factor ≤ 1)
= 1.6mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt (freq. in GHz)
= 3.0 * 5 / sqrt (2.480) mW
= 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.